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- 1 [Ariadne: a secure on-demand routing protocol for ad hoc networks](#)
 Yih-Chun Hu, Adrian Perrig, David B. Johnson
 September 2002 *MobiCom '02: Proceedings of the 8th annual international Mobile computing and networking*
 Publisher: ACM

 Full text available: [Pdf](#) (308.15 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 144, Citations

a secure on-demand routing protocol for ad hoc networks.

Keywords: ad hoc network routing, routing, security

- 2 [Topology discovery for public IPv6 networks](#)
 Daniel G. Waddington, Fangzhe Chang, Ramesh Viswanathan, Bin Yao
 July 2003 *SI GCOMM Computer Communication Review*, Volume 33 Issue
 Publisher: ACM

 Full text available: [Pdf](#) (182.34 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 156, Citations

In just three decades the Internet has grown from a small experimental into a complex network of routers, switches, and hosts. Understanding such large scale networks is essential to the procurement of good architecture

Keywords: IPv6, IPv6 network topology discovery, network measurement probing, topology inference

- 3 [Routing with a clue](#)
 Anat Brenner-Barr, Yehuda Afek, Sarel Har-Peled
 August 1999 *SI GCOMM '99: Proceedings of the conference on Applications architectures, and protocols for computer communication*
 Publisher: ACM

 Full text available: [Pdf](#) (1.26 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

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We suggest a new simple forwarding technique to speed-up IP destination lookup. The technique is a natural extension of IP, requires 5 bits in the IP header (IPv6) and performs IP lookup nearly as fast as IP/Tag-switching but with

Also published in:

October 1999 SIGCOMM Computer Communication Review Volume 29 Issue

4 IPNL: A NAT-extended internet architecture

 Paul Francis, Ramakrishna Gummadi

August 2001 SIGCOMM '01: Proceedings of the 2001 conference on Application technologies, architectures, and protocols for computer communication

Publisher: ACM

Full text available:  Pdf (241.65 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 110, Citation

This paper presents and analyzes IPNL (for IP Next Layer), a NAT-extended protocol architecture designed to scalably solve the address depletion problem. NAT-extended architecture is one where only hosts and NAT boxes are

Also published in:


October 2001 SIGCOMM Computer Communication Review Volume 31 Issue

5 A web-based resource migration protocol using WebDAV

 Michael Evans, Steven Furnell

May 2002 WWW '02: Proceedings of the 11th international conference on World Wide Web

Publisher: ACM

Full text available:  Pdf (296.85 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 35, Citation

The web's hyperlinks are notoriously brittle, and break whenever a resource's location changes. This paper presents a transparent resource migration mechanism that separates a resource's location from its identity, and helps provide referential integrity

Keywords: WebDAV, link rot, referential integrity, resource locator service, resource migration protocol, web

6 Multicast support for mobile hosts using mobile IP: design issues and architecture

Vineet Chikarmane, Carey L. Williamson, Richard B. Sont, Wayne L. Mackay

December 1998 Mobile Networks and Applications . Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  Pdf (268.04 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 92, Citation


In this paper, we consider the problem of providing multicast to mobile IP for network routing support. Providing multicast in an internetwork was made difficult because many multicast protocols are inefficient when ...

7 T/TCP: TCP for transactions

Mark Ivan Griffin, John Nelson

February 2000 *Linux Journal* , Volume 2000 Issue 70es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [HTML](#) (25.32 KB) Additional Information: [full citation](#), [abstract](#), [refere](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 16, Citation (


A discussion of the operation,

8 [Linux WAN Routers](#)

[Tony Mancil](#)

June 1998 *Linux Journal* , Volume 1998 Issue 50es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [HTML](#) (26.69 KB) Additional Information: [full citation](#), [abstract](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation (

Musings of a Network Administrator: Another great use for Linux; Mr. M his company picked Linux routers over the big names

9 [IP switching—ATM under IP](#)

[Peter Newman](#), [Greg Marshall](#), [Thomas L. Lyon](#)

April 1998 *IEEE/ ACM Transactions on Networking (TON)* , Volume 6 Issue

Publisher: IEEE Press

Full text available:  [Pdf](#) (154.32 KB) Additional Information: [full citation](#), [references](#), [cite](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 64, Citation


Keywords: Internet protocol, asynchronous transfer mode, broadband communication system control, data communication, packet switching,

10 [Routing with a clue](#)

[Yehuda Afek](#), [Anat Bremier-Barr](#), [Sariel Har-Peled](#)

December 2001 *IEEE/ ACM Transactions on Networking (TON)* , Volume

Publisher: IEEE Press

Full text available:  [Pdf](#) (227.57 KB) Additional Information: [full citation](#), [abstract](#), [refere](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 33, Citation (

We suggest a new simple forwarding technique to speed up IP destination lookup. The technique is a natural extension of IP, requires 5 bits in the IP header (IPv6), and performs IP lookup nearly as fast as IP/Tag switching but with

Keywords: Best matching prefix, IP forwarding, IP lookup, IP routing, I

11 [A query scope agent for flood search routing protocols](#)

[John Suces](#), [Ivan Marsic](#)

November 2003 *Wireless Networks* , Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf](#) (289.73 KB) Additional Information: [full citation](#), [abstract](#), [refere](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 34, Citation (

Flood-search on-demand routing has received considerable interest for

mobile ad hoc networks. To alleviate the effects of flooding the network packets to discover a route, the concept of an expanding ring search (E

Keywords: flood search, mobile ad hoc network, on-demand routing

12 [Mobile networking in the Internet](#)



Charles E. Perkins

December 1998 *Mobile Networks and Applications* , Volume 3 Issue 4

Publisher: ACM

Full text available: Pdf (166.90 KB) Additional Information: full citation, abstract, refere terms

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 241, Citatio

Computers capable of attaching to the Internet from many places are lil popularity until they dominate the population of the Internet. Conseque research has shifted into high gear to develop appropriate network prot

13 [Contact networking: a localized mobility system](#)



Casey Carter, Robin Kravets, Jean Tourrilhes

May 2003 *MobiSys '03: Proceedings of the 1st international conference on applications and services*

Publisher: ACM

Full text available: Pdf (232.79 KB) Additional Information: full citation, abstract, refere terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 48, Citation (

MobileIP, the standard for Internet mobility, enables transparent mobili node, but requires communication to take a multihop path through the Agent. Although a user with a multiple-interface mobile node may desir

14 [Router plugins: a software architecture for next-generation routers](#)

Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner

February 2000 *IEEE/ ACM Transactions on Networking (TON)* , Volume 8

Publisher: IEEE Press

Full text available: Pdf (530.34 KB) Additional Information: full citation, references, cite

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 93, Citation (

Keyw ords: communication system routing, communication system sec modular computer systems

15 [Host Mobility Using an Internet Indirection Infrastructure](#)



Shelley Zhuang, Kevin Lai, Ion Stoica, Randy Katz, Scott Shenker

May 2003 *MobiSys '03: Proceedings of the 1st international conference on applications and services*

Publisher: ACM


Full text available: Pdf (421.23 KB) Additional Information: full citation, references, inde

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 26, Citation (

16 [Network layer access control for context-aware IPv6 applications](#)

Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nig
July 2003 *Wireless Networks* , Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  Pdf (3.57 MB)


Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 120, Citation

As part of the Lancaster GUIDE II project, we have developed a novel w protocol designed to support the development of next generation mobile applications in our local environs. Once deployed, this architecture will .

Keyw ords: authentication, mobile IPv6, public access point, security, v

17 [Internet mobility 4x4](#)

 Stuart Cheshire, Mary Baker

August 1996 SIGCOMM '96: Conference proceedings on Applications, techn architectures, and protocols for computer communications

Publisher: ACM

Full text available:  Pdf (208.28 KB)

Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 49, Downloads (12 Months): 141, Citation

Mobile IP protocols allow mobile hosts to send and receive packets address home network IP address, regardless of the IP address of their current IP in the Internet. While some recent work in Mobile IP focuses on a couple

Also published in:

October 1996 SIGCOMM Computer Communication Review Volume 26 Issue

18 [Intelligent handoff for mobile wireless internet](#)

[Jon Chung-Shien Wu](#), [Chieh-Wen Cheng](#), [Gin-Kou Ma](#), [Nan-Fu Huang](#)

January 2001 Mobile Networks and Applications , Volume 6 Issue 1

Publisher: Kluwer Academic Publishers


Full text available:  Pdf (223.56 KB)

Additional Information: [full citation](#), [references](#), [cite](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 83, Citation (


Keywords: mobile internet, wireless data networks, wireless internet

19 [Fast address lookups using controlled prefix expansion](#)

 V. Srinivasan, G. Varghese

February 1999 Transactions on Computer Systems (TOCS) , Volume 17 Is

Publisher: ACM

Full text available:  Pdf (258.60 KB)

Additional Information: [full citation](#), [abstract](#), [reference terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 182, Citation

Internet (IP) address lookup is a major bottleneck in high-performance lookup is challenging because it requires a longest matching prefix lookup compounded by increasing routing table sizes, increased traffic, ...

Keywords: Internet address lookup, binary search on levels, controlled expanded tries, longest-prefix match, multibit tries, router performance

20 IP lookups using multiway and multicolumn search

Butler Lampson, Venkatachary Srinivasan, George Varghese
June 1999 IEEE/ ACM Transactions on Networking (TON) , Volume 7 Issue
Publisher: IEEE Press

Full text available:  Pdf (173.06 KB) Additional Information: [full citation](#), [references](#), [cite review](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 61, Citation

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